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9500236

### THE UNITED SHAYES OF AMERICA

TO) ALL TO) WHOM: THESE; PRESENTS: SHARL: COME::

# Kentuckę Agricultural Experiment Station

DECENS, THERE HAS BEEN PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLAN'I VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , OR USING IT IN DUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY ECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'CF461'

In Testimony Mucrost, I have hereunto set my hand and caused the seal of the Mant Antiety Franction Office to be affixed at the City of Washington, D.C. this thirty-first day of March, in the year of our Lord two thousand.

ACRICIA TURAL ASSESSMENT ACCURATE	REPRODUCE LOCALLY. Include form number and date on all reproductions.  U.S. DEPARTMENT OF AGRICULTURE			
AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION (	1974 (5 U.S.C. 552a).			
APPLICATION FOR PLANT VARIETY PROTECTION  (Instructions and information collection burden state)		to determine if a plant variety protecti C. 2421). Information is held confident C. 2426).		
NAME OF APPLICANT(S) (as it is to appear on the Certificate)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME		
Kentucky Agricultural Experiment Stat	кү88-5037	CF461		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Co	ountry)	6. TELEPHONE finclude area codel	FOR OFFICIAL USE ONLY	
S107 Agriculture Science Building-Nor		, , , , , , , , , , , , , , , , , , , ,	PVPO NUMBER	
University of Kentucky	The state of the state of	606-257-3333	9500236	
Lexington, KY 40546		6. FAX (include area code)	F DATE	
			i.	
		606-323-3842	6 6/12/1995	
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Botani	ical)	FILING AND EXAMINATION FEE:	
Glycine max	Leguminosae		1 2450.00	
9. CROP KIND NAME (Common name)			E DATE	
Soybean			R 6/12/1995	
0. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZ	ZATION (corporation, partnersh	in, association, etc.). (Common name)	C CENTIFICATION FEE:	
Agricultural Experiment Station-U.S.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 - 72TL	
1. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	E DATE	
			19 19 199	
6. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow  a.   ☐ Exhibit A. Origin and Breeding History of the Variety  b.  ☐ Exhibit B. Statement of Distinctness  c.  ☐ Exhibit C. Objective Description of the Variety  d.  ☐ Exhibit D. Additional Description of the Variety  e.  ☐ Exhibit E. Statement of the Basis of the Applicant's Ownership				
1. X Voucher Sample (2,500 viable untreated seeds or, for tuber propaga			ed in a public repository)	
g. XI Filing and Examination Fee (\$2,450), made payable to "Treasurer of	the United States" (Mail to PVI	PO)		
. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY	Y VARIETY NAME ONLY AS A		on C2(a) of the Plant Veriation Destruction Act(2)	
DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY YES (If "yes," answer items 18 and 19 below)	Y VARIETY NAME ONLY, AS A	CLASS OF CERTIFIED SEED? (See Section	on 83(a) of the Plant Variety Protection Acti?	
DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY YES III "yes," answer items 18 and 19 below)  DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED GENERATIONS?  YES  NO	□ NO III "no," go t	CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES" TO ITEM 18, WHICH CLASSES	OF PRODUCTION BEYOND BREEDER SEED?	
Y YES (If "yes," enswer items 18 and 19 below)  DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED GENERATIONS?  YES □ NO  HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RE	O AS TO NUMBER OF 19.	CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES" TO ITEM 18, WHICH CLASSES  To FOUNDATION REGISTER  R SALE, OR MARKETED IN THE U.S. OR C	OF PRODUCTION BEYOND BREEDER SEED?	
YES (If "yes," enswer items 18 and 19 below)  DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED GENERATIONS?  THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RECOVERY OF A HYBRID PRODUCED FROM THE VARIETY	O AS TO NUMBER OF 19.	CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES" TO ITEM 18, WHICH CLASSES  To roundation Registers	OF PRODUCTION BEYOND BREEDER SEED?	
Y YES (If "yes," enswer items 18 and 19 below)  DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED GENERATIONS?  YES	O AS TO NUMBER OF 19 ELEASED, USED, OFFERED FOR NO	CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES" TO ITEM 18, WHICH CLASSES  TO FOUNDATION REGISTER  R SALE, OR MARKETED IN THE U.S. OR O	OF PRODUCTION BEYOND BREEDER SEED?  ED [X] CERTIFIED  THER COUNTRIES?	
YES If "yes," enswer items 18 and 19 below)  DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED GENERATIONS?  YES NO  HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RECOVERY THE THE VARIETY BEEN RECOVERY TO SEE THE VARIETY OF A HYBRID PRODUCED FROM THE VARIETY BEEN RECOVERY THE THE VARIETY OF A HYBRID PRODUCED FROM THE VARIETY BEEN RECOVERY THE VARIETY OF THE VARIETY O	NO ##	CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES" TO ITEM 18, WHICH CLASSES  TO FOUNDATION REGISTER  R SALE, OR MARKETED IN THE U.S. OR Or of the certificate.  If will be replenished upon request in accountained for the duration of the certificate.	OF PRODUCTION BEYOND BREEDER SEED?  ED (X) CERTIFIED  OTHER COUNTRIES?	
YES (If "yes," enswer items 18 and 19 below)  DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED GENERATIONS?  YES	NO ## *no, * go t  D AS TO NUMBER OF 19  ELEASED, USED, OFFERED FOR  NO  De furnished with application and in a public repository and main or tuber propagated plant variety the Plant Variety Protection Ac	CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES" TO ITEM 18, WHICH CLASSES  TO FOUNDATION REGISTER  R SALE, OR MARKETED IN THE U.S. OR Or of the certificate.  If will be replenished upon request in accountained for the duration of the certificate.	OF PRODUCTION BEYOND BREEDER SEED?  ED (X) CERTIFIED  OTHER COUNTRIES?	
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YES (If "yes," enswer items 18 and 19 below)  D. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED GENERATIONS?  YES NO  D. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RECOMMENDED.  YES (If "yes," give names of countries and dates)  June 1, 1995 U.S.A.  The applicant(s) declare that a viable sample of basic seed of the veriety will applicable, or for a tuber propagated variety a tissue culture will be deposited. The undersigned applicant(s) islare) the owner(s) of this sexually reproduced a Section 41, and is entitled to protection under the provisions of Section 42 of Applicant(s) islare) informed that false representation herein can jeopardize profile the provisions of Section 42 of Applicant(s) islare) informed that false representation herein can jeopardize profile (Please print or type)	NO ## *no, * go t  D AS TO NUMBER OF 19  ELEASED, USED, OFFERED FOR  NO  Doe furnished with application and I in a public repository and main or tuber propagated plant variety the Plant Variety Protection According to the propagated plant variety  NAME (Pice)	CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES! TO ITEM 18, WHICH CLASSES  To FOUNDATION REGISTER  R SALE, OR MARKETED IN THE U.S. OR Or of the certificate.  If will be replenished upon request in accountained for the duration of the certificate.  If we print or type!	OF PRODUCTION BEYOND BREEDER SEED?  ED (X) CERTIFIED  OTHER COUNTRIES?  Indexic with such regulations as may be	
YES (If "yes," enswer items 18 and 19 below)  DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED GENERATIONS?  YES	NO ## *no, * go t  D AS TO NUMBER OF 19  ELEASED, USED, OFFERED FOR  NO  Doe furnished with application and I in a public repository and main or tuber propagated plant variety the Plant Variety Protection According to the propagated plant variety  NAME (Pice)	CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES! TO ITEM 18, WHICH CLASSES  To FOUNDATION REGISTER  R SALE, OR MARKETED IN THE U.S. OR Or of the certificate.  If will be replenished upon request in accountained for the duration of the certificate.  If and believe(s) that the variety is new, do to the certificate.  If and believe(s) that the variety is new, do to the certificate.  If and believe(s) that the variety is new, do to the certificate.  If and believe(s) that the variety is new, do to the certificate.  If and believe(s) that the variety is new, do to the certificate.  If and believe(s) that the variety is new, do to the certificate.  If and believe(s) that the variety is new, do to the certificate.	OF PRODUCTION BEYOND BREEDER SEED?  ED (X) CERTIFIED  OTHER COUNTRIES?  Indexic with such regulations as may be	

14.a. CF461 is an  $F_4$  derived line from the cross Asgrow 'A4595' x Dekalb Pfizer 'CX415'. The cross was made in the greenhouse January 1986, and the  $F_1$  plant was grown at Lexington summer 1986 at the Kentucky Agricultural Experiment Station. The progeny were advanced by modified single seed descent (harvesting one pod per plant followed by subsampling to maintain a constant population size) for two generations at CCIC in Belize City, Belize. The  $F_4$  plant was selected based on maturity at Lexington in 1987. The  $F_{4:5}$  progeny was evaluated at Lexington in 1988 at which time the line designation (KY88-5037) was assigned. KY88-5037 was tested in breeding tests in Kentucky from 1989 - 1994, in the Northern Uniform Soybean Tests - MG4, in 1992 - 1994, and in the Kentucky Soybean Performance Tests in 1993 and 1994. 1992 112 F<sub>8:9</sub> progeny rows were screened for segregation and off types; the nonsegregating rows were bulked. subsequent seed increases derived from this bulk. the 1993 and 1994 Kentucky Agricultural Experiment Station Seed Laboratory Reports and the 1993 and 1994 Kentucky Seed Improvement Association field inspection reports are attached as evidence of uniformity. The data from agronomic performance in 56 regional environments are submitted as evidence of Stability. 60

14.a. continued

Agronomic summary for CF461

Uniform Test IV 3-Year Mean 1992-1994

# of tests Entry	Yield bu/a 52	Yld. Rank 52	Mat. +/-d 48	Lod 1-5 56	Ht in 56	Seed Qual 53	Pro % 12	Oil % 12
Delsoy 4210 Flyer KS4694 Ripley Spencer KY88-5037 (CF461)	53.1 53.3 54.4 50.5 53.2 56.0	6 4 2 7 5	+2.1 -4.4 +5.8 -2.6 9/27 +5.5	2.3 1.4 1.7 1.3 1.4 2.3	40 33 35 24 36 40	1.9 1.6 1.6 1.4 2.0 1.7	41.9 42.0 41.1 39.8 41.7 40.7	20.9 20.8 20.6 21.1 21.1 20.7

4 M 12 82.38

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14.b. CF461 is phenotypically similar to several soybean varieties in the relative maturity range 4.5 - 4.7. CF461 was released because of its superior yield performance in the Uniform Group 4 regional tests. Those data are shown in 14.a. Its novelty in yielding ability is difficult to prove statistically in paired comparisons with other recent varieties in this relative maturity range. Other factors will need to be considered in each of the particular comparisons. For example, CF461 has a close phenotypic resemblance to the varieties Pennyrile and A4715. It is, however, susceptible to soybean cyst nematode while A4715 is resistant, and CF461 is resistant to races 1 and 7 of phytophthora rot while Pennyrile is susceptible. CF461 has produced yields similar to KS4694, but KS4694 has gray pubescence.

32 TW 15 LIST

N2DV-VIVE-ASO

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURA: MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

## OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

SOYBE	AN (Glycine max L.)		
NAME OF APPLICANT(S)	TEMPORARY DESIGNA	TION VARIETY NAME	
Kentucky Agricultural Experiment Station	KY88-5037	CF461	
ADDRESS /Street and No., or R.F.D. No., City, State, and Zip Co	ode)	FOR OFFI	CIAL USE ONLY
S107 Agriculture Science North University of Kentucky		PVPO NUMBER	
Lexington, Kentucky 40546		9500	236
Choose the appropriate response which characterizes the vin your answer is fewer than the number of boxes provided	d, place a zero in the first	box when number is 9 or le	ess (e.g., 0 9).
Starred characters * are considered fundamental to an ade when information is available.	quate soybean variety des	scription. Other characters	should be described
1. SEED SHAPE:	ı II		
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)		ttened (L/W ratio > 1.2; L/T ratio > 1.2; T/W )	
★ 2. SEED COAT COLOR: (Mature Seed)			
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 =	Other (Specify)	
			**
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		0.00	
1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Neb	soy'; 'Gasoy 17')		
★ 4. SEED SIZE: (Mature Seed)			
1 5 Grams per 100 seeds	***************************************		
★ 5. HILUM COLOR: (Mature Seed)			
6 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperi	ect Black 6 = Black	7 = Other (Specify)
★ 6. COTYLEDON COLOR: (Mature Seed)			
1 = Yellow 2 = Green			
★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:			
2 1 = Low 2 = High	· · · · · · · · · · · · · · · · · · ·		
★ 8. SEED PROTEIN ELECTROPHORETIC BAND	*		
1 = Type A (SP1 <sup>a</sup> ) 2 = Type B (SP1 <sup>b</sup> )			
★ 9. HYPOCOTYL COLOR:	-		
1 = Green only ('Evans'; 'Davis') 2 = Green wi 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71' 4 = Dark Purple extending to unifoliate leaves ('Hodgson'	)	dons ('Woodworth'; 'Tracy')	
★10. LEAFLET SHAPE:			
2 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specif	y)	

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

		<del></del>
11. LEAFLET SIZE:		
1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium ('Corsoy 79'; 'Gasoy 17')	
12. LEAF COLOR:		
1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	2 = Medium Green ('Corsoy 79'; 'Braxton')	
★ 13, FLOWER COLOR:		
1 1 = White 2 = Purple	3 = White with purple throat	
★ 14, POD COLOR:		
1 = Tan 2 = Brown	3 = Black	
★ 15. PLANT PUBESCENCE COLOR:		
2 1 = Gray 2 = Brown (Tawny)		
16. PLANT TYPES:		
1 = Siender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intermediate ('Amcor'; 'Braxton')	**
★ 17. PLANT HABIT:		
1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved P	2 = Semi-Determinate ('Will') Pelican')	
★ 18. MATURITY GROUP:		
0 7 1 - 000 2 - 00 3 - 0 9 - VI 10 - VII 11 - VI	4 = I 5 = II 6 = III 7 = IV III 12 = IX 13 = X	8 = V
★ 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 =	= Susceptible; 2 = Resistant)	
BACTERIAL DISEASES:		
★ 0 Bacterial Pustule (Xanthomonas phaseoli	var. sojensis)	
★ 0 Bacterial Blight (Pseudomonas glycinea)	ic 714 ZI NOC S6.	
₩ Wildfire (Pseudomonas tabaci)	TE: SPI SI NUL 20	
FUNGAL DISEASES:	and Hosa	
★ 0 Brown Spot (Septoria glycines)	<b>BE</b> CEIVED WS-PVPO	
Frogeye Leaf Spot (Cercospora sojina)		
	Race 3 Race 4 Race 5 Other	(Specify)
Target Spot (Corynespora cassiicola)		
O Downy Mildew (Peronospora trifoliorum v	var. manshurica)	
O Powdery Mildew (Microsphaera diffusa)		
Brown Stem Rot (Cephalosporium gregati	um)	
Stem Canker (Diaporthe phaseolorum var.	. caulivora)	

Page 2 of 4

19.	DISEA	SE REACTION	: (Enter 0 = Not T	ested; 1 = Susceptible	le; 2 = Resist	tant) (Co	ntinued)				5. S.
	FUN	GAL DISEASE	S: (Continued)								
*	1	Pod and Stem	n Blight <i>(Diaporthe</i>	phaseolorum var; so,	jae)				٠		
	1	Purple Seed S	Stain (Cercospora k	ikuchii)							
	0	Rhizoctonia f	Root Rot <i>(Rhizoct</i> e	onia solani)							
•		Phytophthora	a Rot ( <i>Phytophtho</i> i	a megasperma var. se	piae)						
*	2	Race 1	0 Race 2	0 Race 3	0 Rac	:e 4	0 Race	5 0	Race 6	Race 7	
	0	Race 8	0 Race 9	Other (Spec	ify) <u>Race</u>	e 25-s	usceptil	ole	· · ·		
•	VIRA	AL DISEASES:					the state				
	0	Bud Blight (T	obacco Ringspot V	'irus)							
	0	Yellow Mosai	c (Bean Yellow Mo	saic Virus)							
*	0	Cowpea Mosa	ic (Cowpea Chloro	tic Virus)				:		•	
	0	Pod Mottle (E	Bean Pod Mottle Vi	rus)							
*		Seed Mottle (	Soybean Mosaic Vi	rus)							
	NEM.	ATODE DISEA	ASES:								
		Soybean Cyst	Nematode (Hetero	dera glycines)							
*		Race 1	0 Race 2	1 Race 3	13 Rac	e 4	Other	(Specify)	·	₩.*-	
	0	Lance Nemate	ode ( <i>Hoplolaimus C</i>	colombus)			•				e ja
*	★ 0 Southern Root Knot Nematode (Meloidogyne incognita)										
*	Northern Root Knot Nematode (Meloidogyne Hapla)										
	0	Peanut Root I	Knot Nematode (M	eloidogyne arenaria)				•		•	•
	0	Reniform Ner	natode (Rotylench	ulus reniformis)							•
	$\Box$	OTHER DISE	ASE NOT ON FO	RM (Specify): _Suc	dden Dea	th Sy	ndrome				·
	ت		•			b	· · · · · · · · · · · · · · · · · · ·				
20. 1	PHYSIC	LOGICAL RE	SPONSES: (Enter	0 = Not Tested; 1 = :	Susceptible;	2 = Resist	tant)				
*	1	Iron Chlorosis	on Calcareous Soi								
		Other (Specify	v)		<u> </u>		<del>.</del>				
21. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)											
O Mexican Bean Beetle (Epilachna varivestis)											
Mexican Bean Beetle (Epilachna varivestis)  Potato Leaf Hopper (Empoasca fabae)											
Other (Specify) Soybean looper											
22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.											
	CHAR	ACTER	NAM	E OF VARIETY		CHAR	ACTER		NAME O	F VARIETY	
P	lant Sha	аре	A4715	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Seed Coa	t Luster	Penn	yrile		
L	eaf Sha	pe	A4715			Seed Size		Calh	oun		
L	eaf Col	or	A4715			Seed Shar	ре				
L	eaf Size	· · · · · · · · · · · · · · · · · · ·				Seedling (	Pigmentation	Penn	yrile	<del></del>	
			ì		I			1			

### 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO, OF DAYS	PLANT	CM PLANT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	POD
Submitted	125	2.3	104	54	108	35.4	17.8	14.9	
Pennyrile Name of Similar Variety	127	1.6	107	66	120	37.2	17.3	16.5	

#### PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A<sub>2</sub> in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

LE: 21 71 NOT S6.

NSDA-AMS-PVPO RECEIVED 14.e. Basis of ownership: The Kentucky Agricultural Experiment Station is the employer of the soybean breeder, T. W. Pfeiffer, who developed, tested, and coordinated the multiplication of this variety. The Kentucky Agricultural Experiment Station is the institution listed on the release notice for this variety.

12 W 22 .... 1

NSDV-VI GENISE

REPRODUCE LOCALLY. Include form num. and date on all reproductions.  U.S. DEPARTMENT OF AGRICULTURE	FORM ROVED - OMB N	O. 0581-0055 EXPIRES: 12-31-9 de in accordance with the Privacy Act o
AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE	1974 (5 U.S.C. 552a) and the Pap	erwork Reduction Act (PRA) of 1995 .
EXHIBIT E	Application is required in order to	o determine if a plant variety protection
STATEMENT OF THE BASIS OF OWNERSHIP	until certificate is issued (7 U.S.C.	2421). Information is held confidentia 2426).
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Kentucky Agricultural Experiment Station	KY88-5037	CF461
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)
S107 Agriculture Science Building-North	606-257-3333	606-323-3842
University of Kentucky Lexington, KY 40546	7. PVPO NUMBER	
dealington, Ki 40540	9500236	
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, please explain.	X YES NO
	·	
	MPL VIDE	
Is the applicant (individual or company) a U.S. national or U.S. based compartif no, give name of country	=	X YES NO
10. Is the applicant the original breeder? If no, please answer the following:		X YES NO
<ul> <li>a. If original rights to variety were owned by individual(s):</li> <li>ls (are) the original breeder(s) a U.S. national(s)? If no, give name of</li> </ul>	country	·—
b. If original rights to variety were owned by a company:		YES NO
Is the original breeder(s) U.S. based company? If no, give name of co	ountry	
11. Additional explantion on ownership (If needed, use reverse for extra space):		
PLEASE NOTE:		
Plant variety protection can be offerded	est elle a acce	
Plant variety protection can be afforded only to owners (not licensees) who meet	one of the following criteria:	

- 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.

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